	Application No.	Applicant(s)	
Notice of Allowability	10/695,605	BROUGH ET AL.	
	Examiner	Art Unit	
	David Cura	1626	
	David Guzo	1636	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3:	S (OR REMAINS) CLOSED in the commercial of the c	n this application. If not included unication will be mailed in due course. <b>Th</b>	IIS itiative
1. This communication is responsive to filing of the applicate	ion on 10/28/03·		
2. The allowed claim(s) is/are <u>1-15</u> .			
3. The drawings filed on are accepted by the Examin	er.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ve been received. ve been received in Applicati	on No	ne
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file MENT of this application.	e a reply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi			:
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") medical including changes required by the Notice of Draftspeed 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date</li></ol>	rson's Patent Drawing Revie   r's Amendment / Comment of  1.84(c)) should be written on the header according to 37 Chapter of the BIOLOGICAL MAT	r in the Office action of the drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the	
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 10/28/03</li> <li>4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. Interview S Paper No. 7. Examiner's	Amendment/Comment  Statement of Reasons for Allowance	

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## **Examiner's Comments**

The following is an examiner's statement of reasons for allowance: The prior art does not teach or suggest the claimed human embryonic kidney cells comprising at least one heterologous nucleic acid sequence which encodes a non-adenoviral gene product which complements in trans for a deficiency in an adenoviral gene selected from E1, E4 and E2a as well as a method for propagating a replication deficient adenoviral vector using said cells. The closest prior art is exemplified by Bernards et al. (cited by applicants, Virology, 1986, Vol. 150, pp. 126-139) which discloses the possibility that one or more endogenous cellular proteins in human embryonic kidney cells (HEK) cells are functionally homologous to the adenoviral E1b 58kDa protein. No prior art teaches human embryonic kidney cells containing heterologous non-adenoviral gene sequences encoding the trans complementing proteins. While the prior art discloses cellular or non-adenoviral gene products which can complement various adenoviral functions including E1a, E1b, E4, E2a, etc. (see Spergel et al., J. Virology, 1992, Vol. 66, No. 2, pp. 1021-1030; Goldsmith et al., Virology, 1998, Vol. 248, pp. 406-419; Horvath et al., Virology, 1991, Vol. 184, pp. 141-148, etc., all cited by applicants). said art does not disclose or render obvious human embryonic kidney cells comprising heterologous genes encoding said non-adenoviral gene products. Additionally, the structural and functional motifs of the E1, E4 and E2a gene products are well known and additional non-adenoviral and cellular genes encoding products capable of complementing these adenoviral genes can easily be identified or synthesized.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Guzo, Ph.D., whose telephone number is (571) 272-0767. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Irem Yucel, Ph.D., can be reached on (571) 272-0781. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Guzo February 14, 2005

PRIMARY EXAMINER